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TITLE: ALKALINE BATTERY

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ABSTRACT:

PURPOSE: To obtain a battery whose hydrogen gas evolution is substantially reduced without use of mercury by containing at least one selected from phosphine compounds and/or phosphine oxide compounds, and an organic ammonium salt in a negative active material.

CONSTITUTION: At least one selected from phosphine compounds indicated in the formula I (R<SP>1</SP>, R<SP>2</SP>, R<SP>3</SP> are H or organic radical of C<SB>1-24</SB>) and phosphine oxide compounds indicated in the formula II, and a quaternary ammonium salt indicated in the formula III (R<SP>4</SP>, R<SP>5</SP>, R<SP>6</SP>, and R<SP>7</SP> are organic radical of

C²⁻, and X is anion) are contained in a negative active material in an alkaline battery. Zn or Zn alloy with a small amount of In, Pb is used as negative active material. Since dissolution of Zn is prevented and H² gas evolution is retarded, a chemically stable battery is economically obtained.

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